

Docket No.: 0020-5360PUS1  
(PATENT)

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Patent Application of:  
Noriyuki SATO et al.

Application No.: 10/529,000

Confirmation No.: 4505

Filed: March 24, 2005

Art Unit: 1646

For: TUMOR ANTIGEN PROTEIN AND USE  
THEREOF

Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT**  
**(SUBMISSION AFTER FILING OF AN APPLICATION BUT BEFORE FINAL**  
**REJECTION OR NOTICE OF ALLOWANCE OR CONCURRENTLY WITH A RULE**  
**1.114 RCE APPLICATION)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

**I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION**

The patents, publications, or other information submitted for consideration by the Office are listed on the PTO-SB08(s), attached hereto.

**II. COPIES**

a. Copies of cited U.S. patents and patent application publications are not included.  
Copies of foreign patent documents and non-patent literature are included.

b. Some or all of the documents listed on the PTO-SB08 are not enclosed because they were cited in the International Search Report and copies should already be in the PTO file. If copies are needed, please contact the undersigned.

c. REFERENCES PREVIOUSLY CITED OR SUBMITTED - Pursuant to 37 C.F.R. §1.98(d), consideration of information listed on the PTO-SB08 form(s) is requested since any patents, publications, or other information which are listed on the PTO-SB08 form(s) but for which copies are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Appl. No(s) and U.S. Filing Date

PCT/JP2003/012037 filed September 19, 2003

III. CONCISE EXPLANATION OF THE RELEVANCE

(check at least one box)

a. DOCUMENTS IN THE ENGLISH LANGUAGE - The patents, publications, or other information listed on the attached PTO SB08 are in the English language and therefore, do not require a statement of relevancy.

b. DOCUMENTS NOT IN THE ENGLISH LANGUAGE - A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:

**English translations of the Abstracts of JP08-000985 and JP09-122476 are attached.**

c. ENGLISH LANGUAGE SEARCH REPORT - An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(III)(A)(3).

d. OTHER - The following additional information is provided for the Examiner's consideration.

**References listed as Cite Nos. CA through CG1 are cited in the present specification.**

IV. FEES (check one box)

a. This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required.

b. This Information Disclosure Statement is being filed concurrent with the filing of a continuation-in-part, continuation, or divisional patent application; therefore, no fee is required.

c. This Information Disclosure Statement is being filed within three months of the filing date of a national application (37 C.F.R. § 1.97(b)(1)). No fee or statement is required. *(This section is not to be used with RCE's.)*

d. This Information Disclosure Statement is being filed within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or statement is required.

e. This Information Disclosure Statement is being filed concurrently with the filing of a Request for Continued Examination under § 1.114 (37 C.F.R. § 1.97(b)(4)). No fee or statement is required.

f. **This Information Disclosure Statement is being filed before the mailing date of a first Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or statement is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the statement under 37 C.F.R. § 1.97(e) below, or, if no statement has been made, charge our deposit account for the fee as required by 37 C.F.R. § 1.17(p).**

g. This Information Disclosure Statement is being filed before the mailing date of a Final Office Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c)(1)) or before the mailing date of a Notice of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c)(2)).

No statement; therefore, a fee as required by 37 C.F.R. § 1.17(p) is attached.

or

See the statement below. No fee is required.

V. STATEMENT UNDER 37 C.F.R. § 1.97(e)

(check only one box)

The undersigned hereby states that:

a. Each item of information contained in the IDS was first cited in any communication from a foreign Patent Office in a counterpart foreign application not more than 30 days prior to the filing of this IDS; or

b. Each item of information contained in the IDS was first cited in any communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS; or

c. No item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of the IDS.

d. Some of the items of information were cited in a communication from a foreign Patent Office. As to this information, the undersigned states that each item of information contained in the IDS was first cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to

the remaining information, the undersigned hereby states that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application and, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

VI. PAYMENT OF FEES (check one box)

The required fee is listed on the attached Fee Transmittal.

**No fee is required.**

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 02-2448.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to our Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Dated: July 1, 2005

Respectfully submitted,

By Mark J. Nuell  
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Attachment(s):

- PTO-SB08
- Documents (35 references)
- Foreign Search Report
- Fee
- Other:

Substitute for form 1449A/B/PTO				Complete if Known	
				Application Number	10/529,000-Conf. #4505
				Filing Date	March 24, 2005
				First Named Inventor	Noriyuki SATO
				Art Unit	1646
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number	0020-5360PUS1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)			
BA	JP-08-000985-A	01-09-1996			✓
BB	JP-09-122476-A	05-13-1997			✓

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
CA	E. GILBOA et al., Cancer Immunol. Immunother, Vol. 46, 1998, pp. 82-87.				
CB	M. NAKAO et al., Cancer Research, Vol. 55, October 1, 1995, pp. 4248-4252				
CC	M. MURAKAMI et al., Cancer Research, Vol. 59, March 15, 1999, pp. 1184-1187.				
CD	C.L. SLINGLUFF, Jr. et al., Clinical Cancer Research, Vol. 7, October 2001, pp. 3012-3024.				
CE	S.A. ROSENBERG, Immunity, Vol. 10, March 1999, pp. 281-287.				
CF	H.G. RAMMENSEE et al., Immunogenetics, Vol. 41, 1995, pp. 178-228.				
CG	M. HERIN et al., Int. J. Cancer, Vol. 39, 1987, pp. 390-396.				
CH	D.D. KHARKEVITCH et al., Int. J. Cancer, Vol. 58, 1994, pp. 317-323.				
CI	M. GOTOH et al., Int. J. Cancer, Vol. 100, 2002, pp. 565-570.				
CJ	V.BRICHARD et al., J. Exp. Med., Vol. 178, August 1993, pp. 489-495.				
CK	A.B.H. BAKKER et al., J. Exp. Med., Vol. 179, March 1994, pp. 1005-1009.				
CL	B. FISK et al., J. Exp. Med. Vol. 181, June 1995, pp. 2109-2117.				
CM	D. BOCZKOWSKI et al., J. Exp. Med., Vol. 184, August 1996, pp. 465-472.				
CN	M.B. BLOOM et al., J. Exp. Med., Vol. 185, No. 3, February 3, 1997, pp. 453-459.				
CO	S. SHICHIJO et al., J. Exp. Med., Vol. 187, No. 3, February 2, 1998, pp. 277-288.				
CP	S.A. ROSENBERG et al., Journal of the National Cancer Institute, Vol. 86, No. 15, August 3, 1994, pp. 1159-1166.				
CQ	K.Y. TSANG et al., Journal of the National Cancer Institute, Vol. 87, No. 13, July 5, 1995, pp. 982-990.				
CR	P. CORREALE et al., Journal of the National Cancer Institute, Vol. 89, No. 4, February 19, 1997, pp. 293-300.				
CS	W.H. HILDEBRAND et al., Journal of Immunology, Vol. 148, No. 4, February 15, 1992, pp. 1155-1162.				
CT	R.T. KUBO et al., Journal of Immunology, Vol. 152, 1994, pp. 3913-3924.				
CU	L. RIVOLTINI et al., Journal of Immunology, Vol. 154, 1995, pp. 2257-2265.				
CV	A. KONDO et al., Journal of Immunology, Vol. 155, 1995, pp. 4307-4312.				

Examiner Signature	Date Considered
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/529,000-Conf. #4505
<i>(Use as many sheets as necessary)</i>				Filing Date	March 24, 2005
				First Named Inventor	Noriyuki SATO
				Art Unit	1646
				Examiner Name	Not Yet Assigned
Sheet	2	of	2	Attorney Docket Number	0020-5360PUS1

CW	T. SUDO et al., Journal of Immunology, Vol. 155, 1995, pp. 4749-4756.
CX	V. TSAI et al., Journal of Immunology, Vol. 158, 1997, pp. 1796-1802.
CY	J. ALEXANDER et al., Journal of Immunology, Vol. 159, 1997, pp. 4753-4761.
CZ	P. CORREALE et al., Journal of Immunology, Vol. 161, 1998, pp. 3186-3194.
CA1	L.H. BUTTERFIELD et al., Journal of Immunology, Vol. 161, 1998, pp. 5607-5613.
CB1	G.Y. ISHIOKA et al., Journal of Immunology, Vol. 162, 1999, pp. 3915-3925.
CC1	E.A. WALTER et al., New England Journal of Medicine, Vol. 333, No. 16, October 19, 1995, pp. 1038-1044.
CD1	J.D. THOMPSON et al., Nucleic Acids Research, Vol. 22, No. 22, 1994, pp. 4673-4680.
CE1	Y. KAWAKAMI et al., Proc. Natl. Acad. Sci. USA, Vol. 91, April 1994, pp. 3515-3519.
CF1	J.D. ALTMAN et al., Science, Vol. 274, October 4, 1996, pp. 94-96
CG1	S. BOECKLE et al., Virology, Vol. 293, 2002, pp. 103-117.

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	Date Considered
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